

DEFB4 Protein, Human, Recombinant

General Information

Synonyms:	DEFB4;DEFB104B;hBD-4;DEFB104;BD-4;DEFB-4;Beta-Defensin 104;Beta-Defensin 4;β-Defensin 104;Defensin Beta 104;β-Defensin 4;Defensin β104;DEFB104A
Protein Construction:	Glu23-Pro72
Species:	Human
Expression Host:	E. coli
Accession:	Q8WTQ1
Molecular Weight:	9 KDa (reducing condition)
AA Sequence:	Glu23-Pro72

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	Greater than 95% as determined by reducing SDS-PAGE. (QC verified)
Endotoxin:	< 0.1 ng/μg (1 EU/μg) as determined by LAL test.
Formulation:	Lyophilized from a solution filtered through a 0.22 μm filter, containing 20 mM PB, 130 mM NaCl, pH 7.4.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 μg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months.

Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

Defensins are cationic peptides. It is an important ingredient of the innate immune system. β-defensins are expressed on some leukocytes and epithelial surfaces. Four human β-Defensins have been identified to date: BD-1, BD-2, BD-3 and BD-4. β-defensins contain a six-cysteine motif, they forms three intra-molecular disulfide bonds. β-defensins are also chemoattractant towards immature dendritic cells and memory T cells. The β-

defensin proteins are expressed as the C-terminal portion of precursors; they are released by proteolytic cleavage of a signal sequence.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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